

Chemistry I: Element Trading Card Web Quest

Description: In this web quest you will create trading cards highlighting the major information about elements.

Introduction: In this web quest you will create an informational card (4 X 6) in a trading card format.

Task:

Each card should contain the following information about the element:

1. Picture of element
2. Element name
3. Symbol
4. Atomic number
5. Average atomic mass
6. Family
7. Name Origin
8. Date discovered
9. Noble configuration
10. Uses
11. Obtained from
12. Color
13. Density
14. Melting point
15. Boiling point
16. Pauling electronegativity value

Process:

To complete this task you will need to:

1. Choose an element that you would like to know something about. You Must have your teacher's approval.
2. View the sample card.
3. Create a bibliography of your sources (to be located on the second side of your card).
4. Cards will be posted on the board in room 132

Resources: here are some sources.

<http://www.webelements.com/>

<http://www.chemicalelements.com/>

<http://periodic.lanl.gov/default.htm>

http://preparatorychemistry.com/periodic_table_frames.htm

Evaluation: See scoring rubric

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Evaluation Rubric

Important information	Value	Score
a) picture	3	
b) name	2	
c) symbol	2	
d) atomic number	2	
e) atomic mass (amu)	2	
f) element family	2	
g) origin of name	2	
h) date discovered	2	
i) Noble configuration	2	
j) uses of the element	2	
k) obtained from	2	
L) sources listed on back	2	
Physical properties		
l) color	2	
m) density	2	
n) melting point	2	
o) boiling point	2	
p) Pauling electronegativity value	2	
Card appearance		
Neatly arranged on 4 X 6 card	5	
Total	40	



Name: lithium

Symbol: Li

Atomic Number: 3

Atomic Mass: 6.941 amu

Family: Alkali Metals

Noble Configuration: $[\text{He}]2s^1$

Date of Discovery: 1817

Name Origin: Greek, *lithos*
(stone)

Obtained from: passing
electric charge through melted
lithium chloride, spodumene

Used for: batteries, ceramics,
and lubricants

Color: silvery, white/gray

Density: 0.53 g/cm^3

Melting point: $180.54 \text{ }^\circ\text{C}$

Boiling point: $1347.0 \text{ }^\circ\text{C}$

Electronegativity Value: 1.0

Sources:

Bentor, Yinon. Chemical Element.com
- Lithium. Oct. 23, 2007
<<http://www.chemicalelements.com/elements/li.html>>.

*WebElements™, the periodic table on the WWW, URL: <http://www.webelements.com/>
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